**System on AWIPS for Forecasting and Evaluation** 

of SEas and LAkeS (SAFESEAS)

PURPOSE : Alpha Testing

PATCH NUMBER : P522\_MDL\_A100255

**AFFECTED SITES**: MOB, BOX, LOX, DTX, EYW

VERIFICATION

: The installation procedures were tested and verified at National Weather

**STATEMENT** Service Headquarters (WSH) Silver Spring, MD.

**REINSTALLATION** None

:

**REQUIREMENTS** 

**TIME REQUIRED**: Approximately 20 minutes.

**SECURITY LEVEL** : root

## **GENERAL**

The Meteorological Development Laboratory (MDL) is conducting an Alpha Test of the new SAFESEAS software, with the aid of the sites mentioned above.

The patch file **P522\_MDL\_A100255.tar.gz** must be downloaded from the NOAA1 server and unbundled to extract the installation scripts and new executables.

This installation will perform the following functions:

- <sup>o</sup> Install the new executables in their proper locations on the appropriate machines.
- Output of the patch log file /awips/PatchLog on ds1.

## PROCEDURE: SAFESEAS Software Alpha Test Installation Procedure

- 1. At a workstation, start a telnet session and log in **ds1** as **root**.
- 2. Change to the **/data/local** directory, create the subdirectory **SAFESEASalpha**, set permissions for it, and cd to it:

cd /data/local mkdir SAFESEASalpha chmod 777 SAFESEASalpha

## cd SAFESEASalpha

3. Connect to the NOAA1 ftp server by typing:

```
ftp 165.92.25.15
```

- 4. Once connected, login as **anonymous** user(user: nonymous? password is e-mail address).
- 5. Get the 522\_MDL\_A100255.tar.gz?file by typing:

```
binary
hash
cd /pub
get P522_MDL_A100255.tar.gz
bye
```

6. To unbundle the "P522\_MDL\_A100255.tar.gz" file, type:

```
gunzip P522_MDL_A100255.tar.gz
tar xvf P522_MDL_A100255.tar
chmod 777 SAFESEAS_install.csh
```

7. Make sure **no D-2D** is running on **lx2**. Make a typescript file, and run the SAFESEAS install script. **Remember** to answer "**yes**" or "**y**" when asked if you want to record this in the Patch Log.

```
script -a installSAFESEAS.out
./SAFESEAS_install.csh
```

- 8. Search the installSAFESEAS.out file for the text: ext busy?(without the quotes). This would indicate a abnormal situation where a file could not be replaced because its process was still running on lx2. *If* the ext busy?search succeeds, then you must do the steps below. Otherwise, skip to step 9:
  - check lx2 again to make sure **no** D2D is running, then rlogin to lx2;

```
rlogin lx2
```

- for each file where the ext busy?was indicated, check again whether a process is running for the file

- if lsof returns a PID for the process/file, try to kill the PID:

**kill -9 PID** (Where PID is the PID number from lsof)

- run the command sof filename again to see if it was able to be killed (i.e., no output from the lsof command). If unable to kill the PID of the process, rename the file for the executable, in-place in the same directory:

my filename filename.OB1baseline

- then manually install the SAFESEAS version of the file(s) from the /data/local/SAFESEASalpha/AOB1\_MDL\_SAFESEAS1.0 directory to the /awips/fxa/bin directory:

```
cd /data/local/SAFESEASalpha/AOB1_MDL_SAFESEAS1.0
cp filename /awips/fxa/bin
```

When all necessary files have been installed in this manner, exit the lx2 session to get back as root on the ds1:

exit

9. While root on ds1, become user fxa.

su - fxa

10. Change to /awips/fxa/bin directory and change fxa-data.purge file access permissions by typing:

```
cd /awips/fxa/bin
  chmod 755 fxa-data.purge
```

11. Edit the **fxa-data.purge** file using **vi** or another editor, and add the SAFESEAS-specific line. The line to be added to the file is the one found between the comment lines **"# SAFESEAS"** through **"# END OF SAFESEAS"** in the SAFESEAS version of the **fxa-data.purge** file which you will find in:

/data/local/SAFESEASalpha/AOB1 MDL SAFESEAS1.0/fxa-data.purge

Add the line in the same position in the run-time file. **DO NOT SIMPLY REPLACE**YOUR PURGE FILE WITH THE SAFESEAS VERSION OR SERIOUS PURGE
PROBLEMS WILL RESULT AT YOUR SITE.

12. Now log in to **lx2** as **fxa** to run D-2D and SAFESEAS localizations:

rlogin lx2

```
cd /awips/fxa/data/localization/scripts
./mainScript.csh -tables -dirs
createSSsetupFile
```

13. Switch to **root** with **no option "-"** by typing:

su

14. Add SAFESEAS applications to the Linux Startup Menu by typing:

```
cd /data/local/SAFESEASalpha
./SAFESEASstartMenu.csh
exit
```

15. While still fxa, rlogin to the as1 and stop and restart the Notification Server, and start the SAFESEAS processor:

rlogin as1 stopNotificationServer startNotificationServer startSSprocessor exit

16. Exit all the sessions, and close the telnet window. Start D-2D on lx2.

This completes the software patch installation procedure. Consult the SAFESEAS User Guide for instructions on starting the SAFESEAS D-2D displays and customizing the setup.